

Interoffice Memorandum

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To: Albert RUIZ VELA

Subject: Monthly Report – September 1997
Product Development
& Engineering

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INFORMATION –

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ORMCO CONFIDENTIAL AND PROPRIETARY INFORMATION**ORTHODONTIC PRODUCTS****RESEARCH AND EXPLORATORY PRODUCT INVESTIGATIONS****BRACKETS / BUCCAL TUBES**

CustomR_x CUSTOM LABIAL APPLIANCE SYSTEM (Project 853-E Craig Andreiko/Eric Chapoulaud)

- a. Lab Reopening (Craig Andreiko)
 - 1) Accomplishments / Status
 - Scanned image of the PK Thomas Case lower Jaw
 - Created new software modules to calculate the set-up of the lower jaw: the mandibular skeletal bone can be defined by the operator along with the mesio-distal width of the lowers 7x7, using photographic recombination of the scanned model.
 - Successfully printed upper bracket tree (3 samples) and had them setup for casting.
 - 2) Goals For October
 - Implement new modules in the set-up programs to create the mandibular set-up and adapt the occlusion with the maxillary set-up.
 - Test the casting process of the bracket trees.
 - Manufacture the new jigs with the new attachment.
 - Assemble the upper case, using casted brackets and new jigs.
 - 3) Major Project Milestone
 - ④ Lower/Uppers Setup for the PK Thomas case: November 97
- b. 3D Digitizing (Eric Chapoulaud)
 - 1) Accomplishments / Status
 - No Action this month.
 - 2) Goals For October
 - A malpositioned case will be scanned to be used as test data with the new set-up software being developed.
 - 3) Major Project Milestone
 - ④ First Clinical case scan: November 97.
- c. Bracket Fabrication (Eric Chapoulaud)
 - 1) Accomplishments / Status
 - Software upgrade of the ModelMaker II Driver was installed, along with modifications in the parameters file. It improved jet reliability and parts quality.
 - 2) Goals For October
 - Print parts to check for accuracy and reliability.

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- 3) Major Project Milestone
 - ◎ Reliable printing operation: October 97.